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For LSI Printed-Circuit Boards

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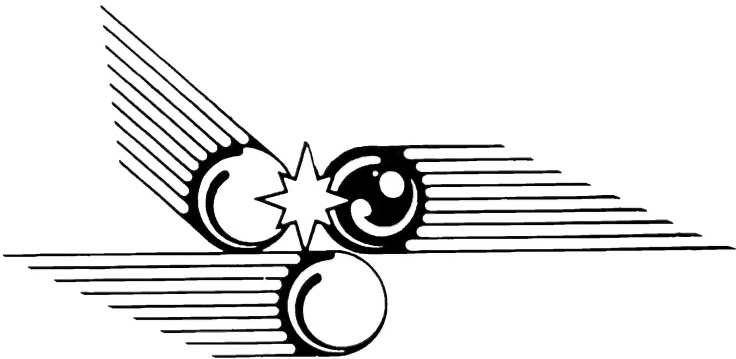
Schematic Package Supplement to

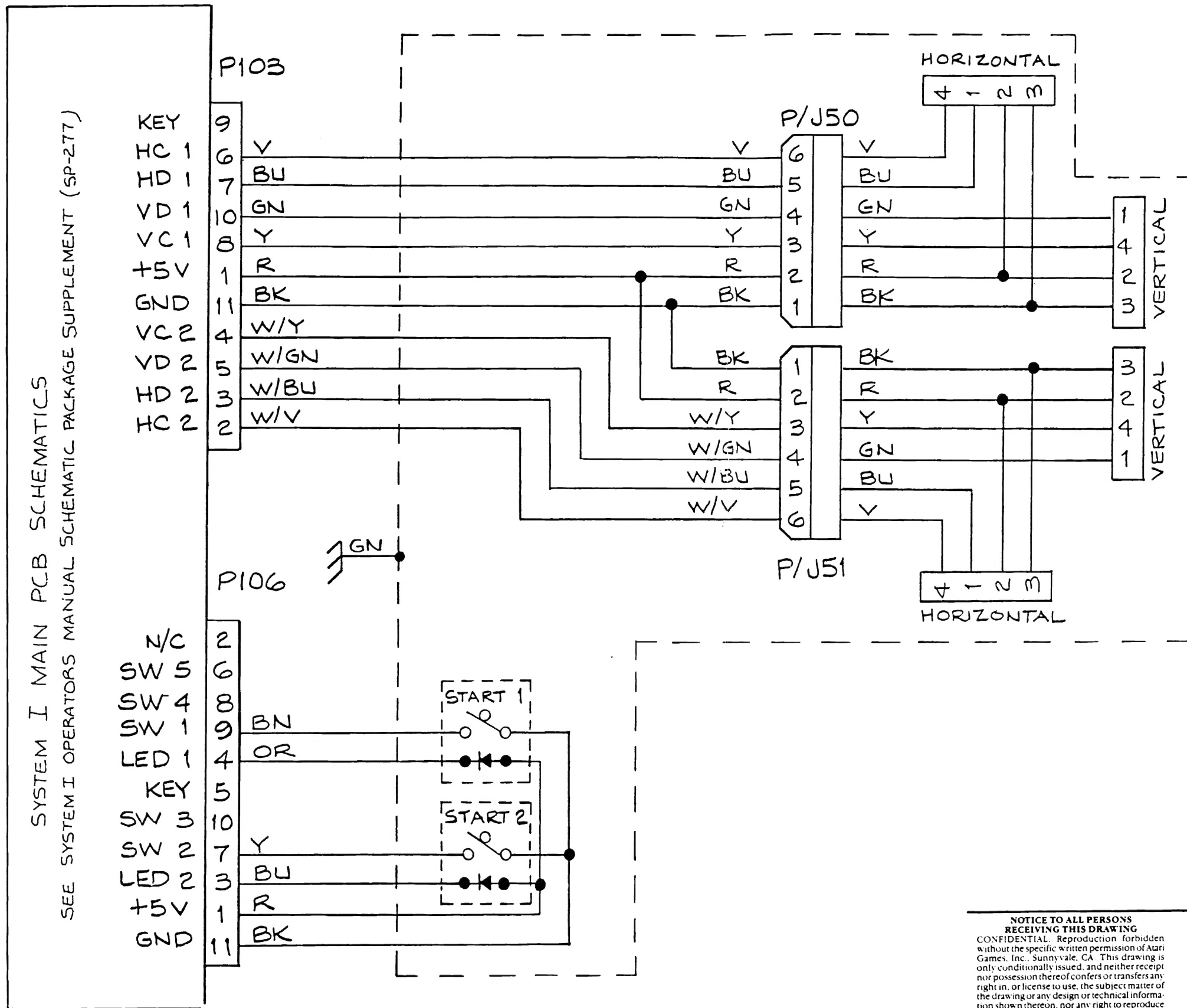


Operators Manual

NOTE

This section for LSI version of PCB only. Check your game to be sure it applies.





NOTE

See the System I™ Operators Manual Schematic Package Supplement (SP-277) for the System I cabinet main wiring diagram.

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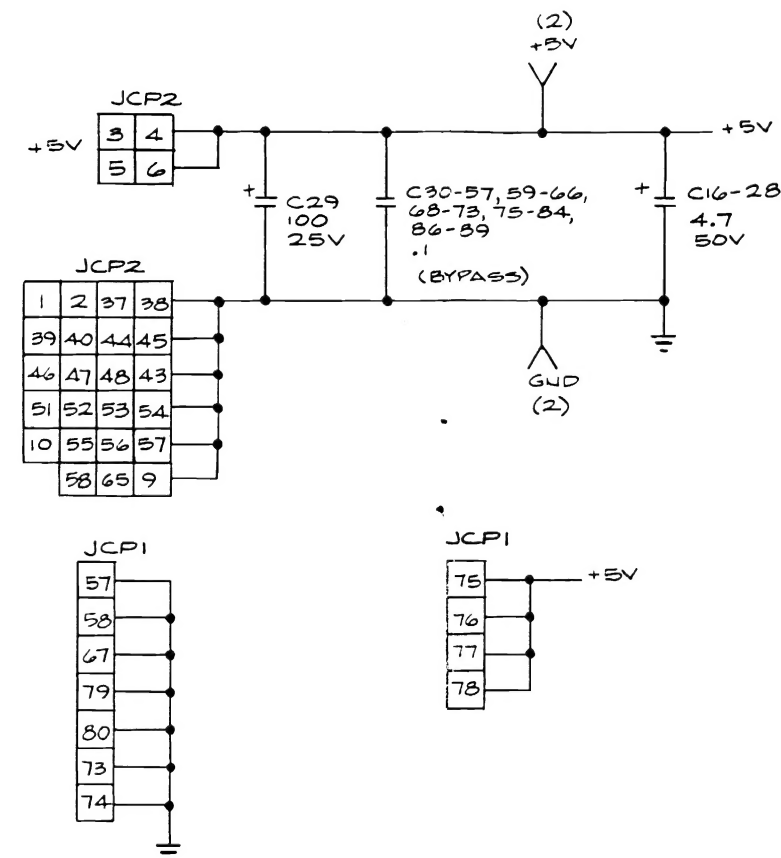
Marble Madness™ Control Panel Wiring Diagram



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SP-276-A Sheet 1B
1st printing

Power Input



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Marble Madness™ LSI Cartridge PCB Schematic Diagram



Wiring Diagram for PIC16C505

Microcontroller Pins:

- 28: 23128
- 29: 23128
- 30: 23128
- 31: VPP
- PGM
- A13
- A12
- A11
- A10
- A9
- A8
- A7
- A6
- A5
- A4
- A3
- A2
- A1
- A0
- OE
- OE
- OE
- 22: ENDBW/R

Connectors and Components:

- J1:**
 - 3: SROM2
 - 4: SROM1
 - 5: SROM0
 - 9: SBA13
 - 1: SBA12
 - 10: SBA11
 - 11: SBA10
 - 12: SBA9
 - 8: SBA8
 - 7: SBA7
 - 6: SBA6
 - 14: SBA5
 - 29: SBA4
 - 15: SBA3
 - 30: SBA2
 - 16: SBA1
 - 27: SBA0
- SMD7:**
 - SMD6
 - SMD5
 - SMD4
 - SMD3
 - SMD2
 - SMD1
 - SMD0
- Other:**
 - +5V
 - 20
 - 20
 - 20
 - 13D
 - 14/15D
 - 16D
 - 19
 - 18
 - 17
 - 16
 - 15
 - 13
 - 12
 - 11
 - 20
 - 21
 - 22
 - 23
 - 24
 - 25
 - 26
 - 28

NOTE

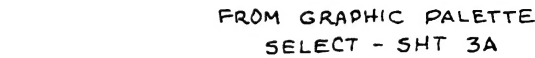
Integrated circuits at locations 10E, 14E, and 14D/E are not installed on the Marble Madness cartridge PCB.

NOTE
Integrated circuits at locations 10E, 14E, and 14D/E are not installed on the Marble Madness cartridge PCB.

[illegible]

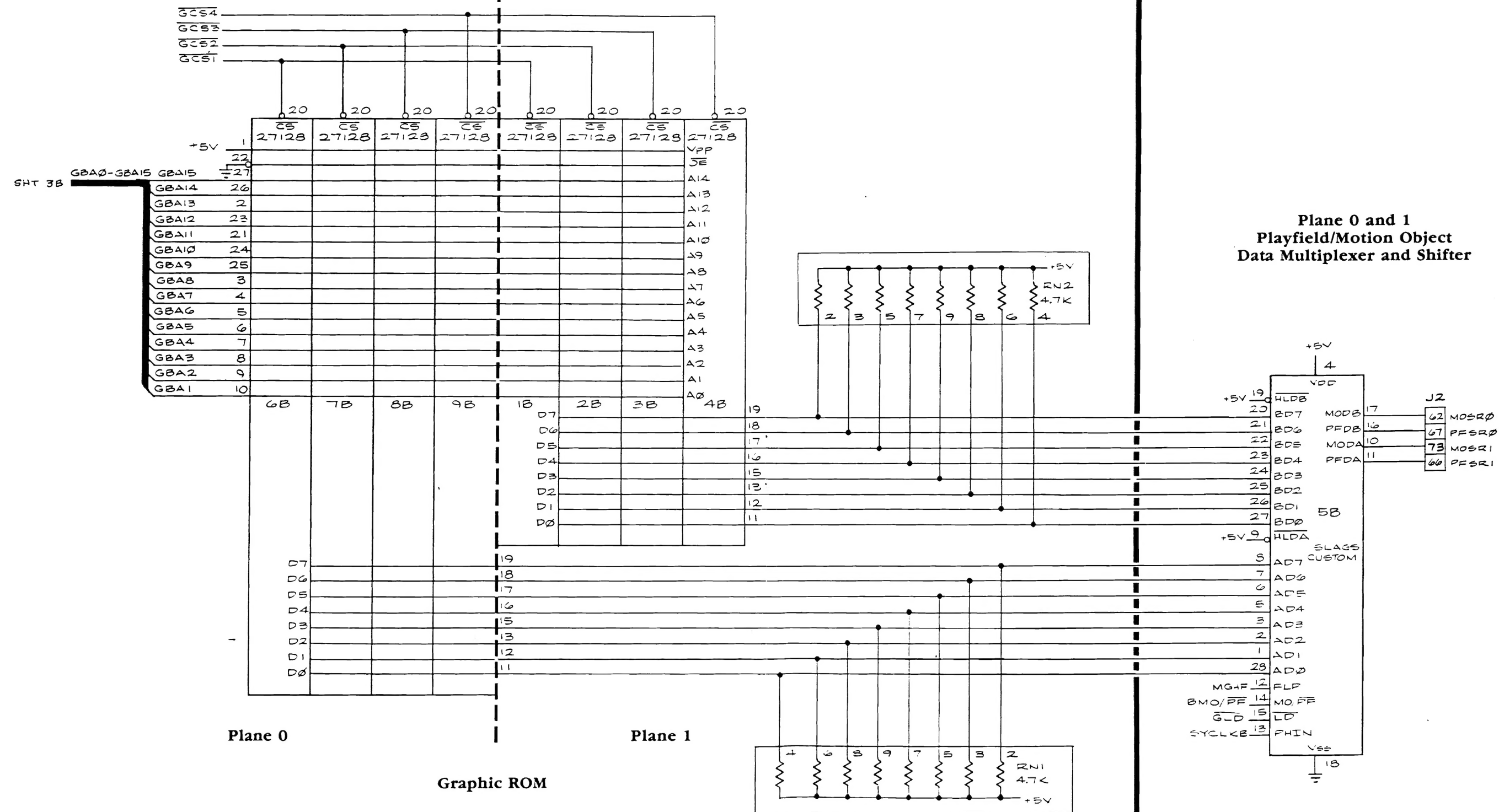
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Graphic Bank and Picture Select



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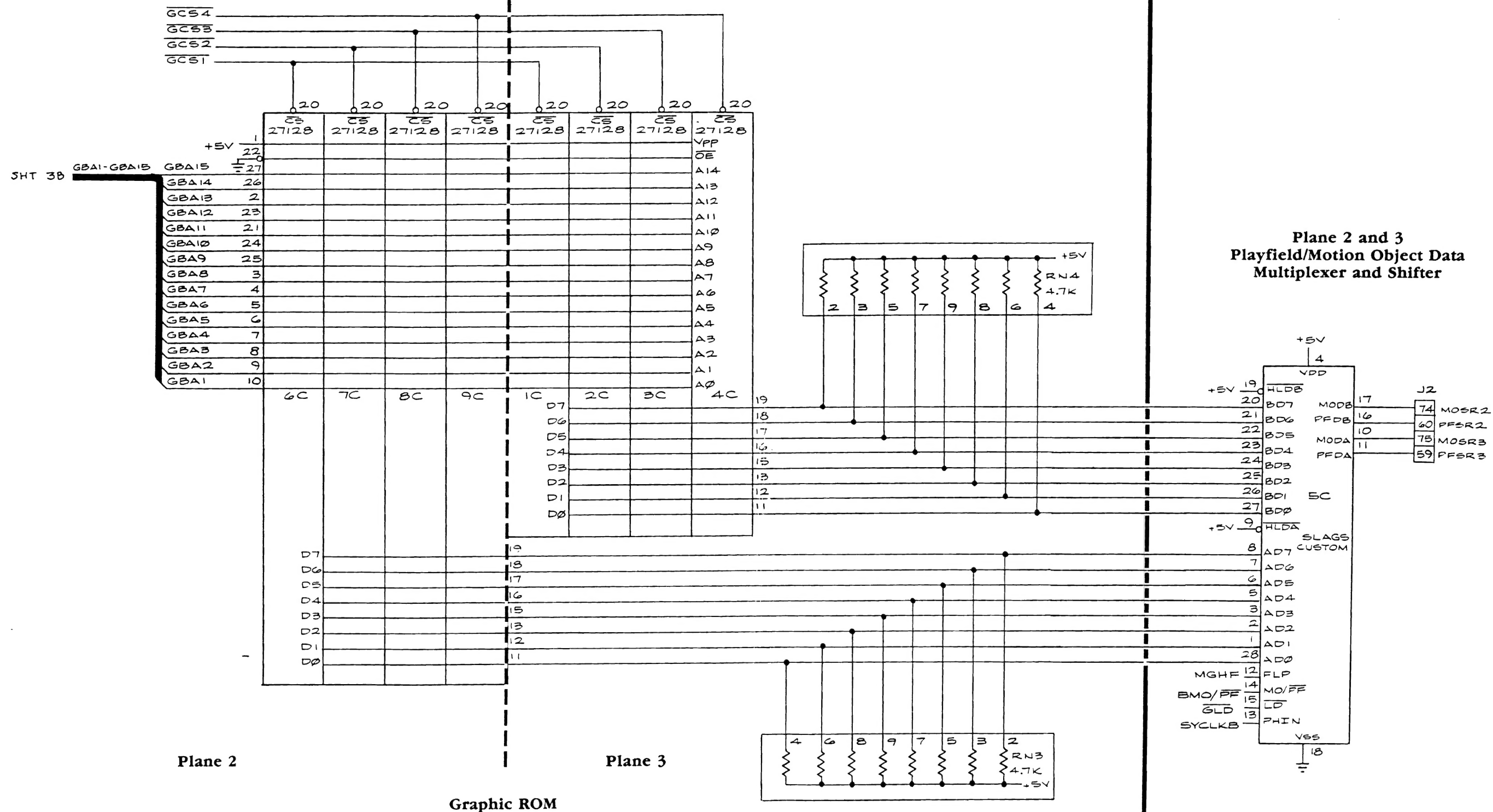
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Marble Madness™ LSI Cartridge PCB Schematic Diagram



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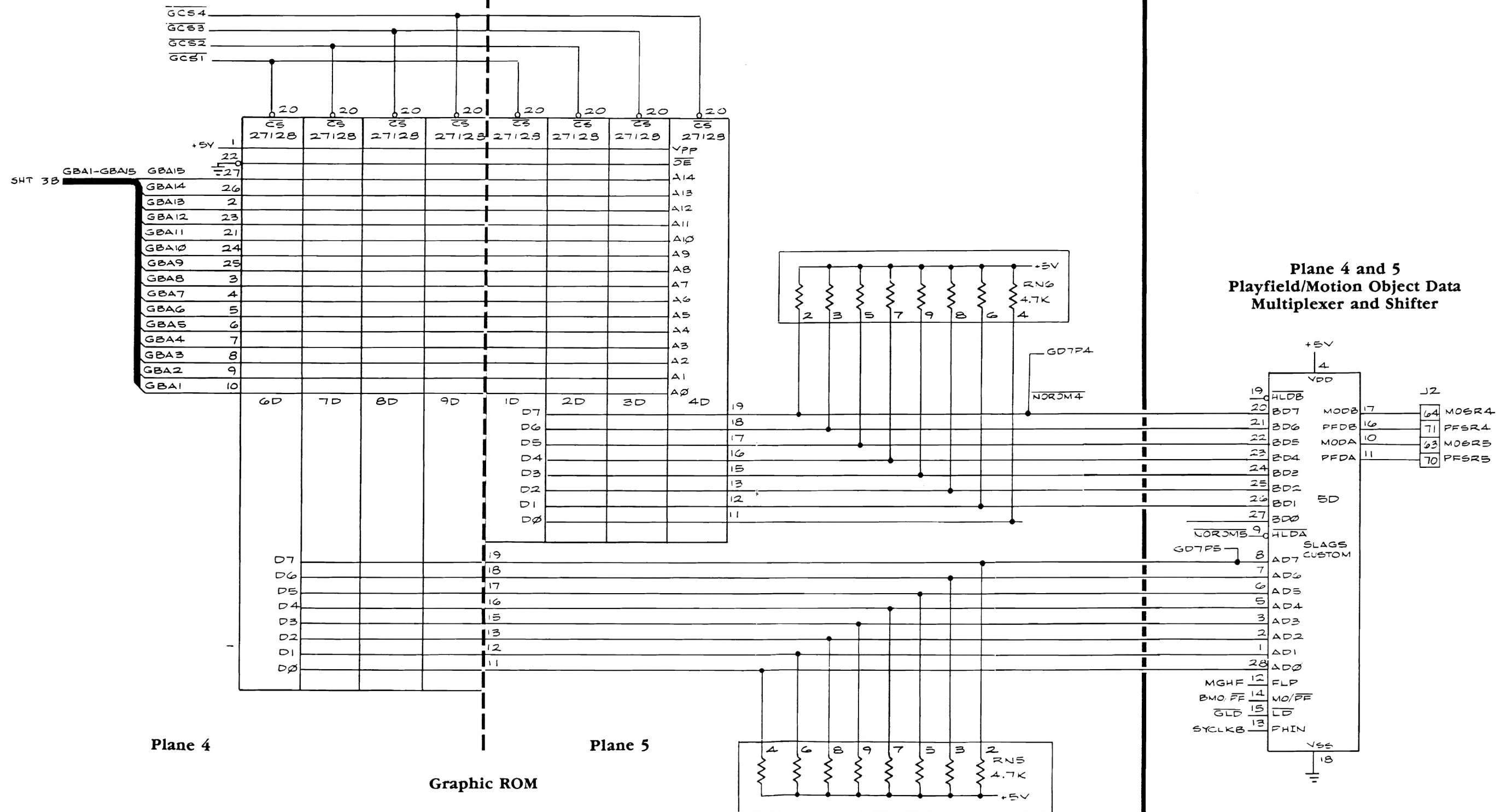


NOTE
Integrated circuits at locations 3C, 4C, 7C, 8C, and 9C are not installed on the Marble Madness cartridge PCB.

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Marble Madness™ LSI Cartridge PCB Schematic Diagram



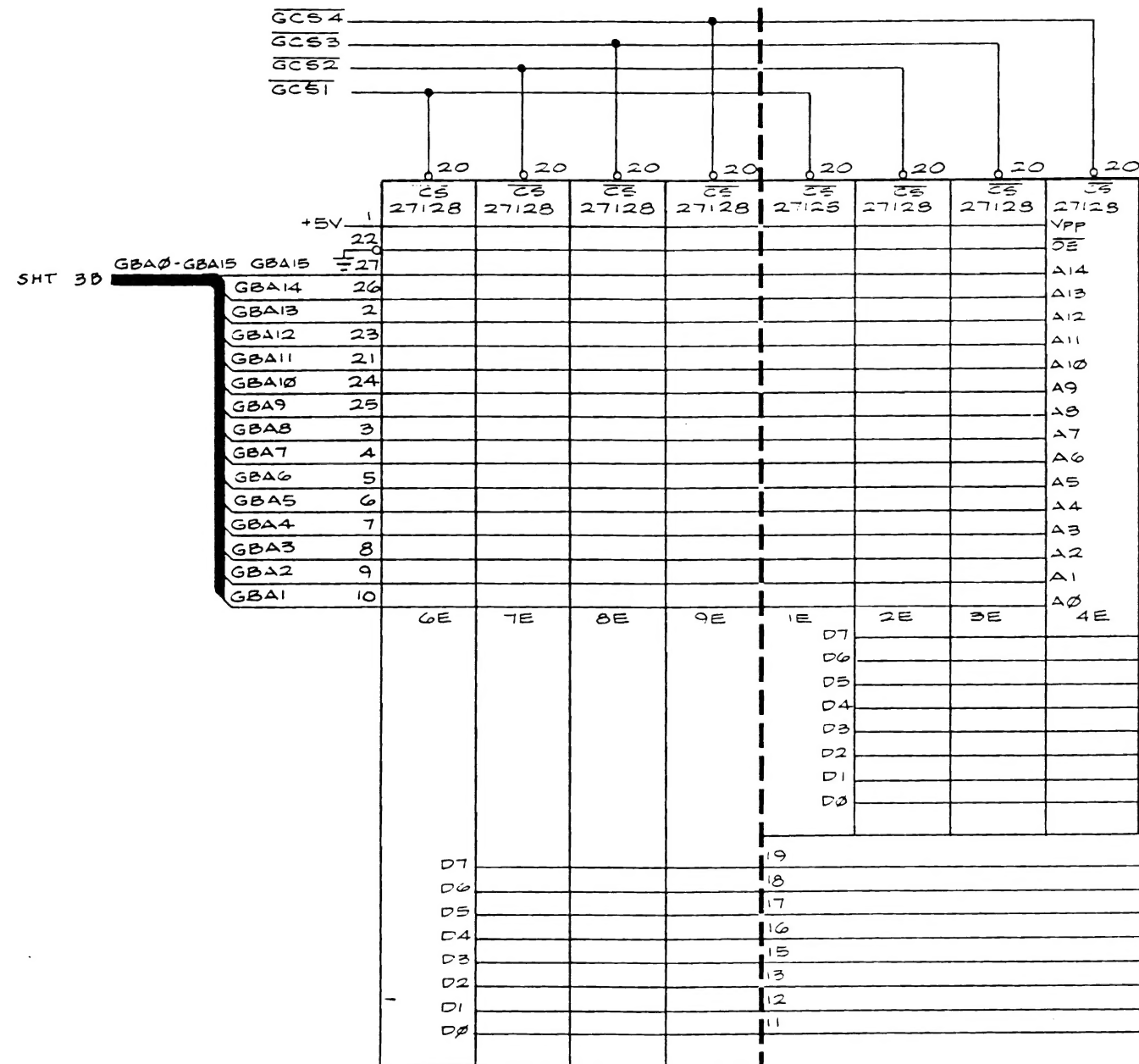


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Marble Madness™ LSI Cartridge PCB Schematic Diagram





Plane 6

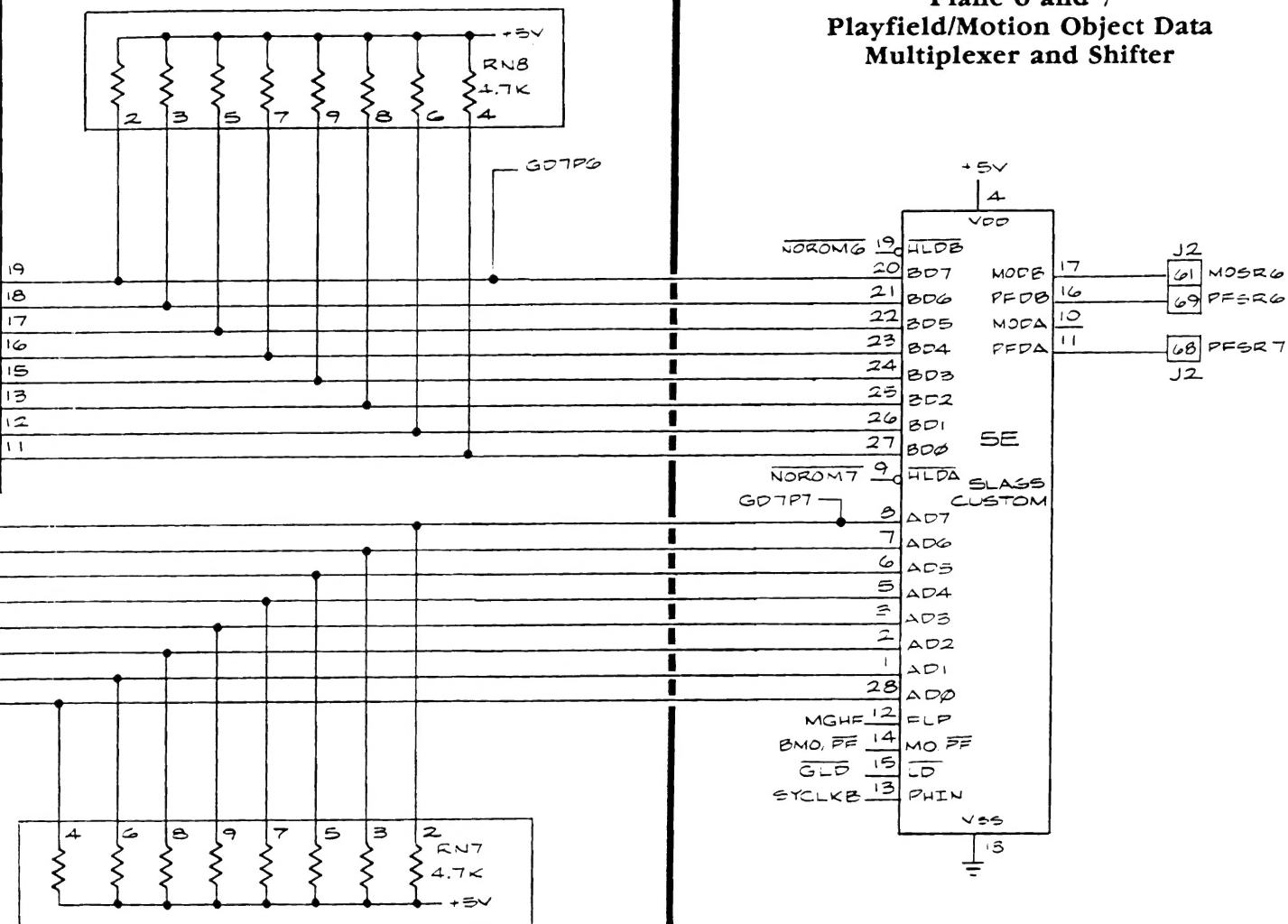
Plane 7

Graphic ROM

NOTE

Integrated circuits at locations 1E, 2E, 3E, 4E, 6E, 7E, 8E, and 9E are not installed on the Marble Madness cartridge PCB.

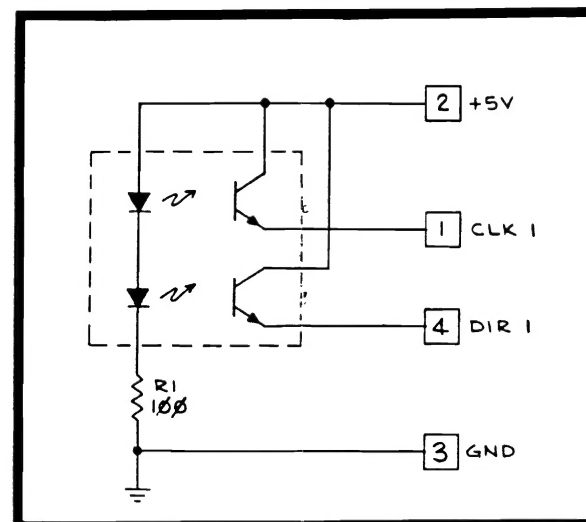
Plane 6 and 7
Playfield/Motion Object Data
Multiplexer and Shifter



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Marble Madness™ LSI Cartridge PCB
Schematic Diagram





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Marble Madness™ LSI Coupler PCB Schematic Diagram



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